

ERDF "Plug-In" Waste for 2008

Annual Listing of Other Hanford "Plug-In" Waste Under the 2007 ERDF ROD Amendment

The Amended Record of Decision (ROD) for the Environmental Restoration Disposal Facility (ERDF) issued in January 2007, authorized the use of a plug-in approach for disposal of Hanford-only generated waste at the ERDF. In order to be eligible for disposal at the ERDF under the plug-in approach, the waste must be approved by the U.S. Environmental Protection Agency (EPA) and meet the following criteria:

- Be similar to the wastes identified in Table 1 of the 2007 ROD Amendment
- Meet existing ERDF Waste Acceptance Criteria (WAC), or be capable of meeting the WAC with treatment
- Comply with Land Disposal Restricted (LDR) requirements
- Be generated at Hanford or be derived directly from Hanford-generated waste in support of *Resource Conservation and Recovery Act* (RCRA) and *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* (CERCLA) cleanup actions
- Be compatible for disposal at the ERDF
- Not addressed by an existing CERCLA decision document

The table below summarizes the wastes that have been disposed under the plug-in approach during 2008 under the January 2007 ROD amendment.

Similar to Table 1	Meets the ERDF Waste Acceptance Criteria (WAC)?	LDR Treatment Required?	Generated at Hanford in support of a cleanup action	Compatible for ERDF Disposal?	CERCLA Decision?	Approved by EPA
Contaminated process contacted debris from operation, maintenance and clean-up activities at the 242-A Evaporator Building	Yes	No	Approximately 7 cubic yards of soil contaminated with #2 low sulfur diesel from the 242-A Evaporator was generated while providing steam to the 242-A Evaporator. This project is part of a RCRA cleanup activity at the Hanford Site supporting cleanup actions.	Yes	No	May 21, 2008
Mixed waste solids, contaminated sorbed liquids and soils, and other solids (non-thermal treatment). This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.	Yes	No	Approximately 80 cubic yards of soil contaminated with releases of hazardous substances or chemicals from containers or heavy equipment (primarily petroleum products) associated with providing support to Hanford Site surveillance, maintenance and facility operations. This waste is generated on the Hanford site in support of RCRA and CERCLA cleanup actions.	Yes	No	November 25, 2008

Background

The Environmental Restoration Disposal Facility is located in the center of the Hanford Site and comprises four large disposal areas, or eight cells. Built two at a time, each cell is 500 feet square and 70 feet deep. ERDF is constructed with a multiple barrier liner system that provides an impermeable layer of protection, preventing contaminants from leaking into the ground. Each pair of cells is large enough to hold 2.8 million tons of waste material.

Since operation began in 1996, more than eight million tons of Hanford cleanup wastes have been disposed at ERDF. Most of the waste has come from waste sites, burial grounds and demolition debris associated with the former plutonium production facilities in the 100 and 300 areas.

Cleanup along the river will generate at least 2.2 million additional tons of waste material to the facility before 2015. In addition, waste volumes from other Hanford cleanup projects are expected to increase substantially as demolition and cleanup work accelerates in the 200 areas.

The Tri-Party agencies signed the ROD authorizing construction of ERDF in January 1995. The ROD provides the overall requirements for design, construction and disposal operations at the facility. The ROD has been amended four times, mostly to authorize expansion of the facility. An amendment in 2007 authorized disposal of some additional Hanford wastes not previously authorized. This report documents the other Hanford wastes disposed in ERDF in 2008.



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